

# AMIRTHA VARSHINI E

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[Linkedin](#)

[Github](#)

## EDUCATION

### DIPLOMA IN PROGRAMMING

Indian Institute Of Technology MADRAS.

**CGPA : 9.1/10 | Year : 2024 - 2025**

### BACHELOR OF COMMERCE

JUSTICE BASHEER AHMED SAYEED COLLEGE FOR WOMEN.

**CGPA : 7.6/10 | Year : 2018 - 2021**

### HSC

TST Rajah Girls' Matriculation Higher Secondary School.

**PERCENTAGE : 79.4 % | Year : 2018**

## COURSE WORK

### GRADUATE

Data Structures

Object Oriented Programming

DBMS

## SKILLS

### PROGRAMMING

**Advance :** Python | Java Script

**Intermediate :** Java | Node js

**Basic:** C, C++

### TECHNOLOGIES & FRAMEWORK

**Backend :** Flask, Redis Cache, SQLAlchemy

**Frontend :** HTML | CSS | Bootstrap | Vue.js |

React js

### TOOLS

VS CODE | GIT HUB | FIGMA | SQL

## HOBBIES & INTERESTS

- Electronics & Robotics - Built a gyro-controlled RC car and exploring drones, go-karts, and PCB design.
- YouTube Content Creation - Running a movie review channel, with plans for tech-based content.
- Movie Enthusiast - Passionate about films and reviews.

## ACHIVEMENTS

- Secured 2nd Runner-Up position in the 5KM Marathon at Kampus Run, organized by IIT Madras, demonstrating physical endurance and commitment.
- Served as Deputy Head for the event Robo Soccer at IIT Madras, overseeing planning and execution of a robotics competition where student-built autonomous vehicles competed in a soccer-based challenge.

## CAREER OBJECTIVE

### ASPIRING FULL-STACK WEB DEVELOPER

- Transitioning from an accounting background with strong analytical and problem-solving skills.
- Skilled in data analysis and workflow optimization as a Junior Accounting Executive.
- Passionate about building scalable, user-friendly web applications.
- Seeking a Full-Stack Developer role to contribute and grow in a dynamic environment.

## WORK EXPERIENCE

### VERANDA RACE | Junior Accounts Executive

November 2021 - March 2023 | Chennai, Tamil Nadu 600 035.

- Managed payment processing and franchise disbursements, resolving discrepancies and providing financial insights.
- Automated accounting tasks using Excel macros and scripting, cutting manual effort by 80% and improving workflow efficiency.
- Applied structured problem-solving skills from finance to software development for better logic building and data management.

## PROJECTS

### INTERACTIVE QUIZ WEB APPLICATION VERSION 2

[GITHUB LINK FOR QUIZ MASTER APP VERSION 2](#)

- Built a full-stack quiz platform using Flask-RESTful, SQLAlchemy, Vue.js, Bootstrap, and Chart.js, featuring role-based access, REST APIs, and timer-based auto-submit.
- Developed a responsive SPA with admin dashboards for quiz management and student portals with real-time scoring, countdowns, and progress charts.
- Streamlined manual quiz processes with a modular, API-first architecture and integrated data visualization for analytics and performance tracking.

### INTERACTIVE QUIZ WEB APPLICATION VERSION 1

[GITHUB LINK FOR QUIZ MASTER APP](#)

- Developed a web-based quiz system using Flask, JavaScript, HTML, CSS, and Chart.js with features like an admin panel for managing subjects/quizzes, timed quizzes with auto-evaluation, and real-time result visualization.
- Built a responsive, user-friendly interface with dynamic analytics for enhanced exam preparation.

### ESP-NOW 4WD ROBOTIC SYSTEM

[GITHUB LINK FOR ESP32 JOYSTICK CONTROL BOT](#)

- Build a responsive 4WD robot and its remote control using two ESP32s. This project leverages the fast, connectionless ESP-NOW protocol for real-time wireless command of four DC motors and two servo motors. The repository contains the complete Arduino sketches for both the transmitter and receiver units.

### WEB-CONTROLLED CAR(RASPBERRY PI PICO W)

[GITHUB LINK FOR WEB-BASED CONTROL CAR](#)

- Wi-Fi Controlled Motor Car (Raspberry Pi Pico W) - Built a smart car with DC motors and servo, controlled via a web-based HTML/JS interface. Implemented PWM for speed, LED/servo control, and Wi-Fi server for real-time browser-based driving.